

FIG. 1

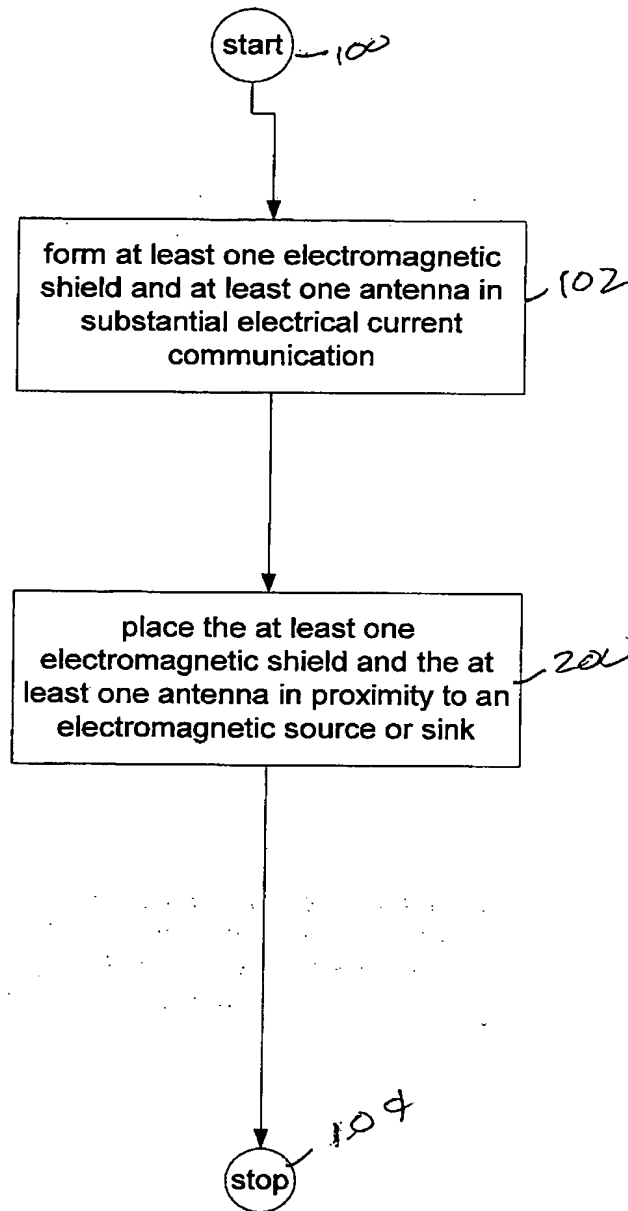


FIG 2

FIG. 3A

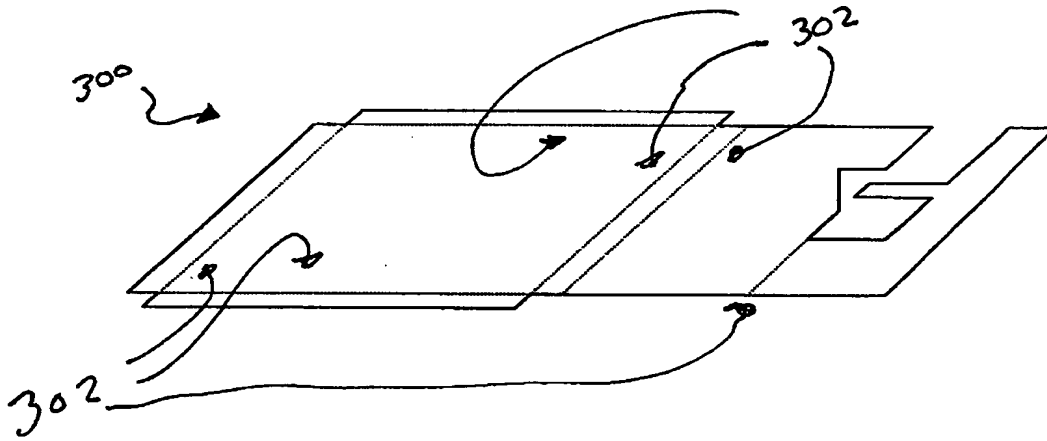
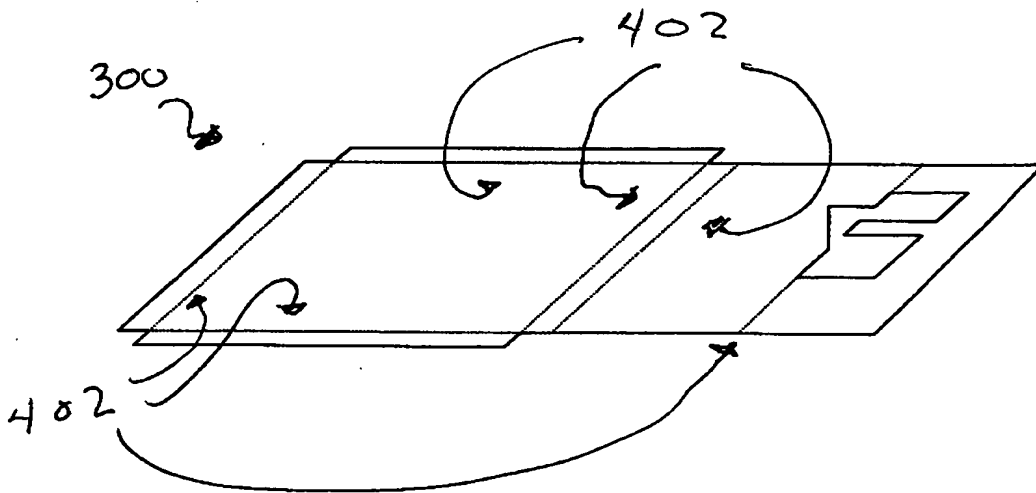


FIG. 4A



000423; ANTENNA AND SHIELD;
EL 903 006 404 US

FIG. 3B

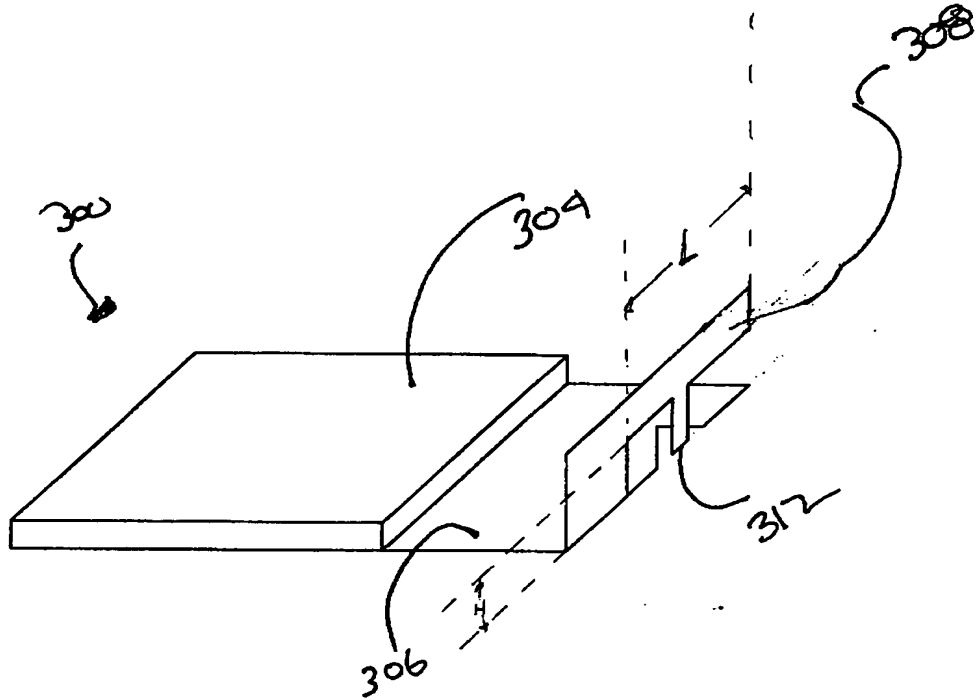


FIG. 4B

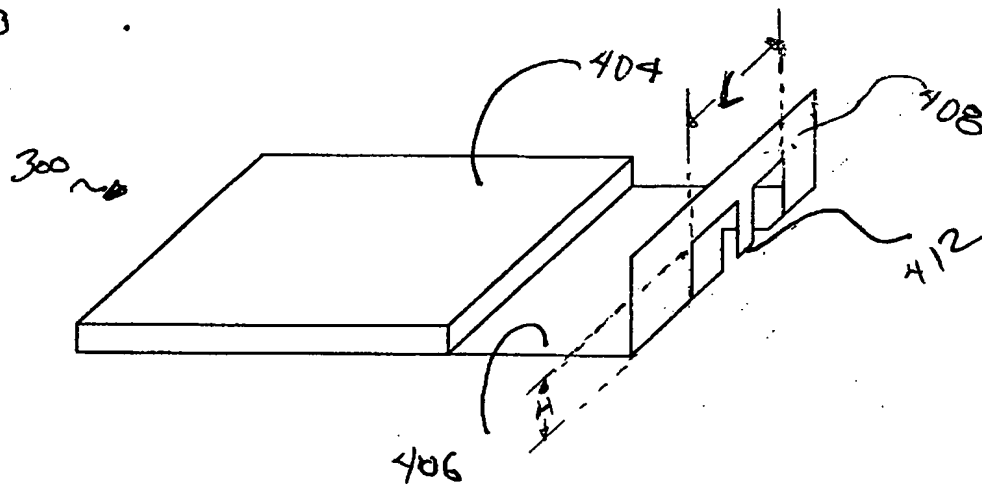


FIG. 3C

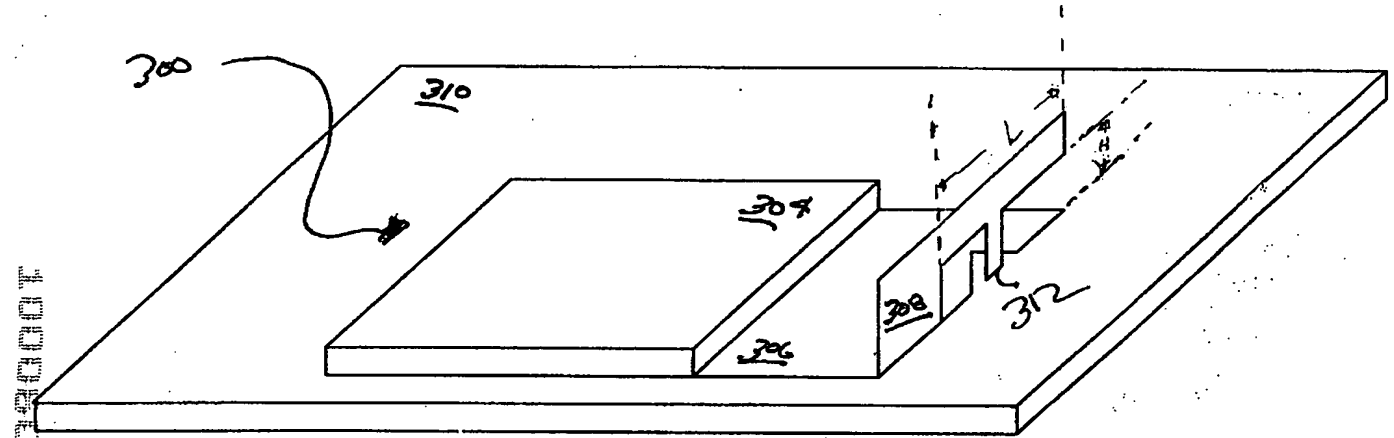


FIG. 4

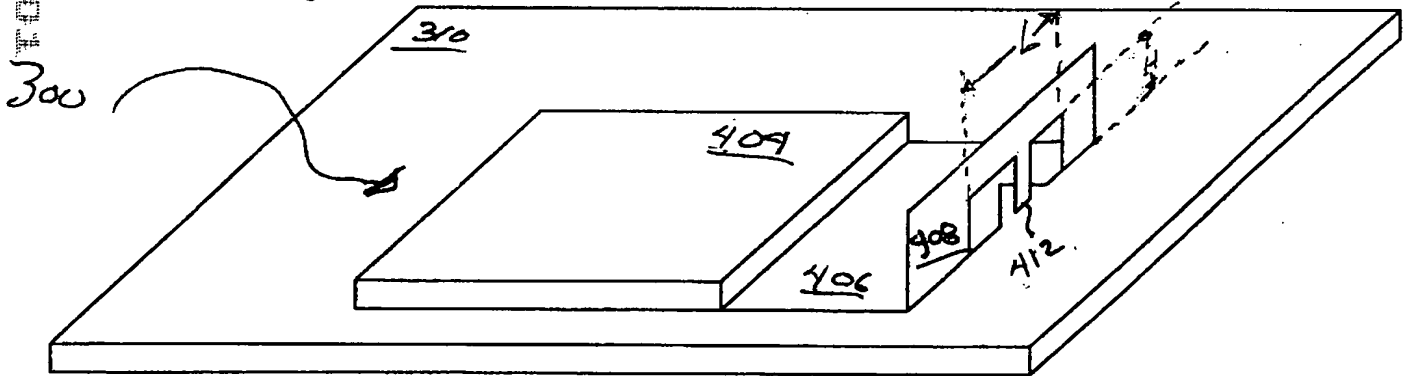


FIG. 5A

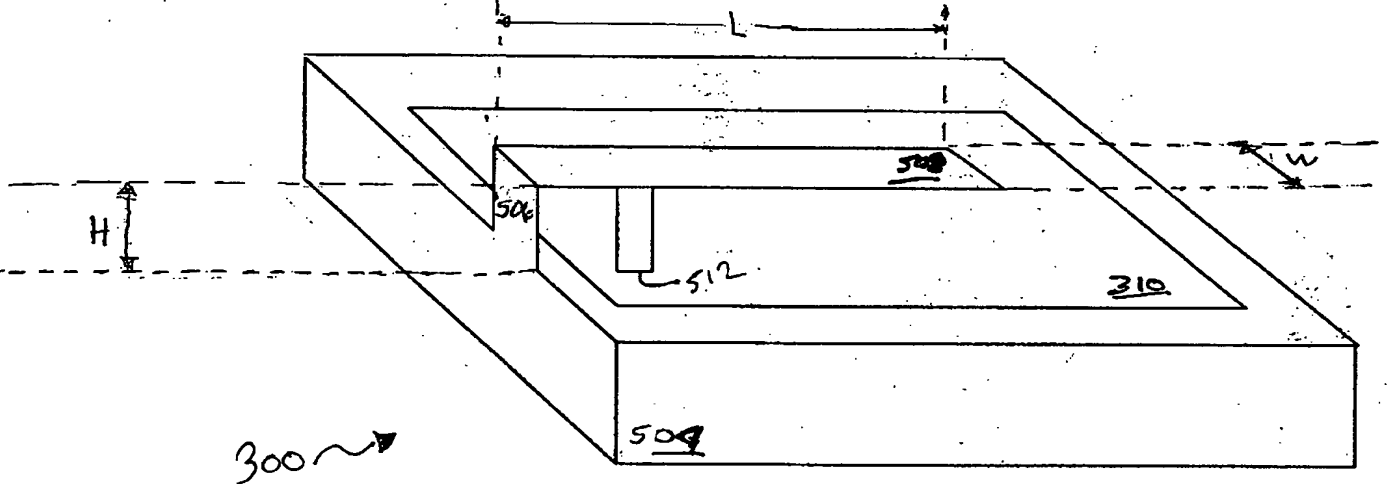
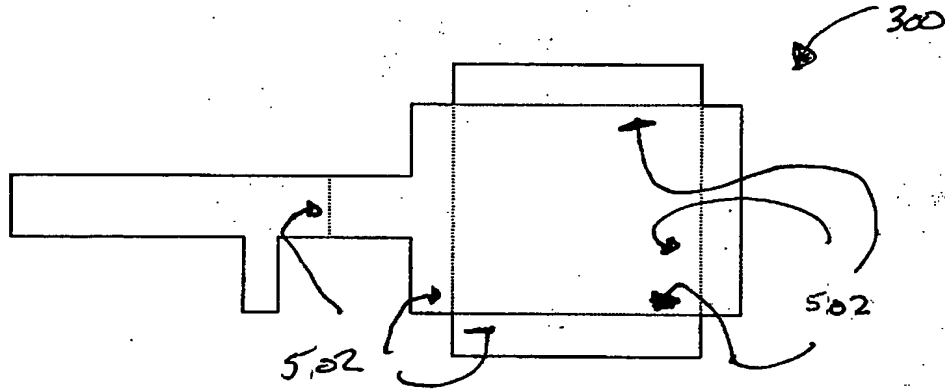
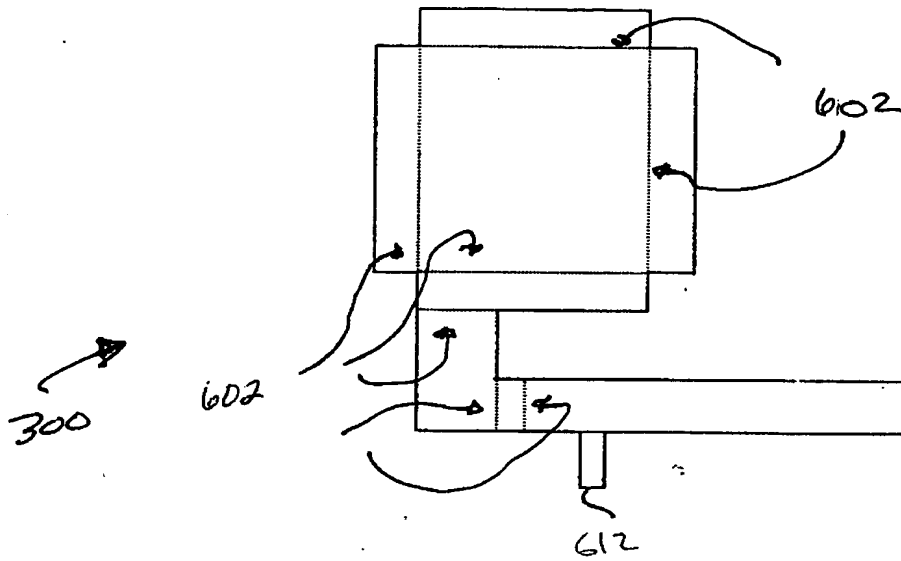
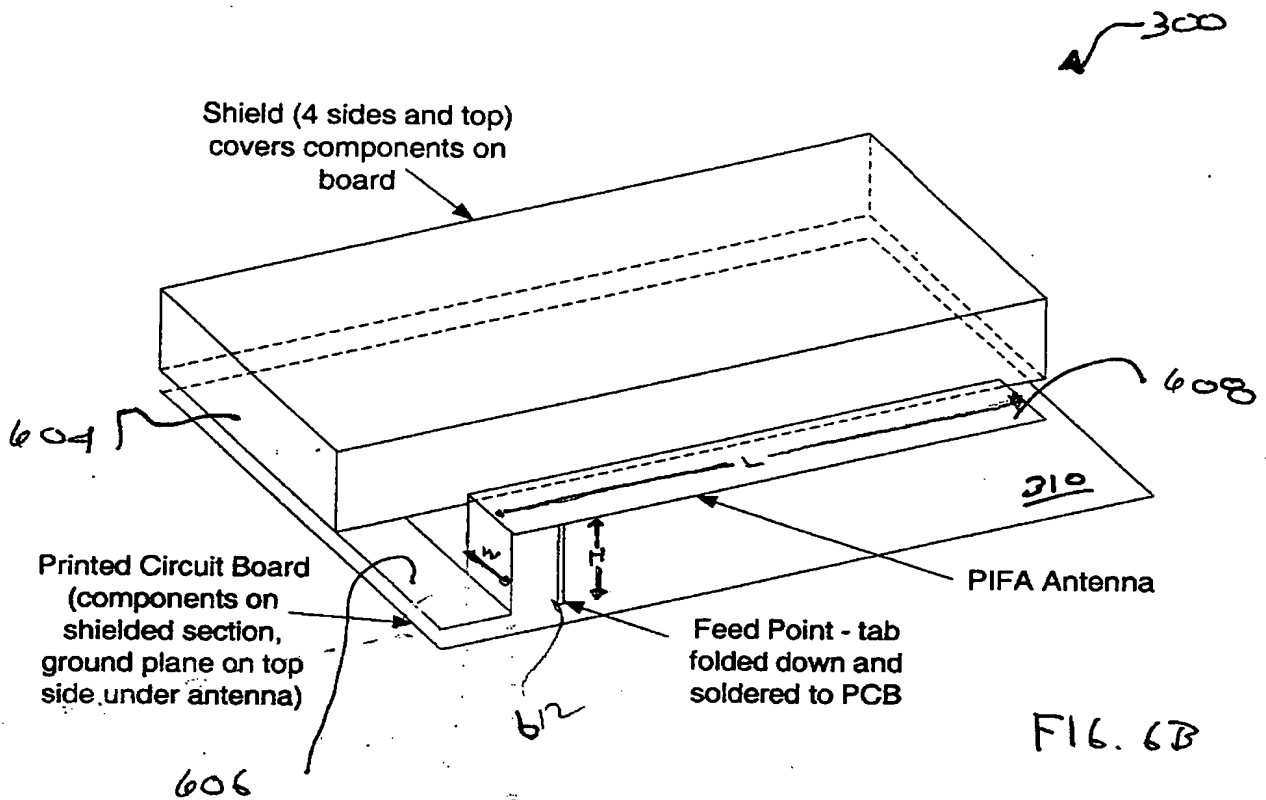


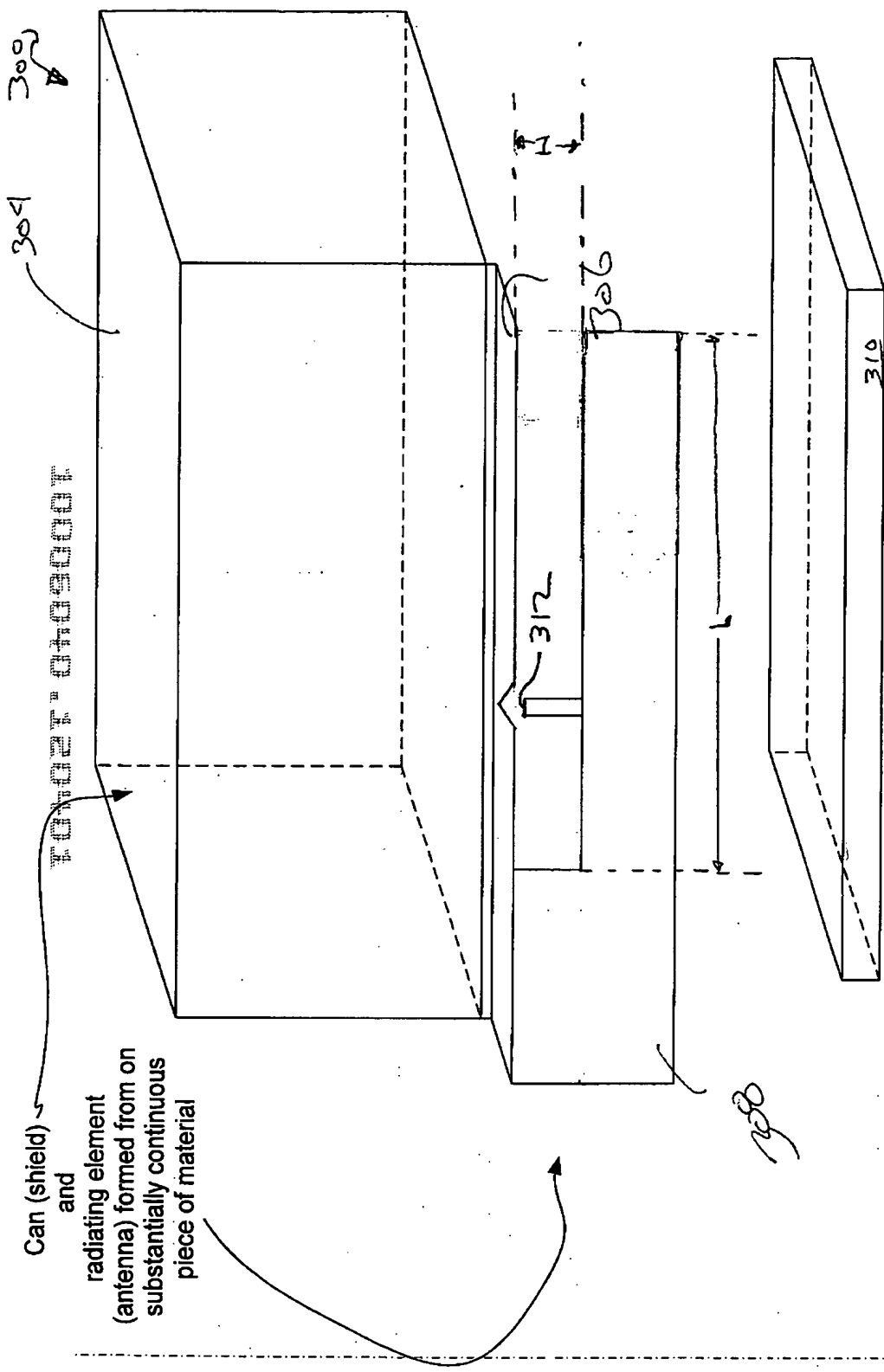
FIG. 5B

FIG. 6A



1005040-120401



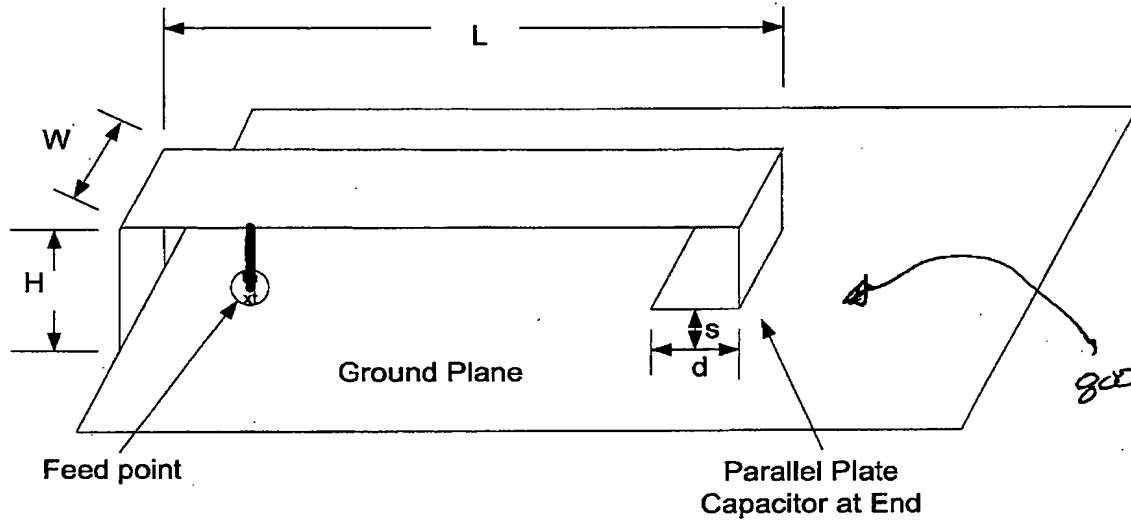


Can (shield) and
 radiating element
 (antenna) formed from on
 substantially continuous
 piece of material

Here, since radiating element
 radiates below Printed Circuit
 Board, Printed Circuit Board
 of Material Sufficient to Act
 as Shielding and/or Has Metal
 Layer

F16.7

PIFA with Integral Capacitor at Open End



Frequency determined primarily by L and Capacitance
Capacitance determined by area $W \times d$ and height above ground s
Bandwidth and Efficiency influenced by L , W , and H

FIG. 8